DEPARTMENT OF THE NAVY
NAVAL CONTROL OF SHIPPING ORGANIZATION

DIRECT · PROTECT

Communicating With PORTSCOM

Four Methods Of Communicating With PORTSCOM

- Put MTF Messages on Disk and Submit to a Government Communications Center

- Conduct Non-Secure Point-to-Point Data Exchanges with another PORTSCOM Unit

- Conduct Secure Point-to-Point Data Exchanges with another PORTSCOM Unit

- Attach Files to CC:Mail Message and send through an MSC CC:Mail Post Office

Submit MTF Messages on Disk to Comm Center

- Advantages
  - Highly reliable
  - Can easily feed automated Command and Control Systems
  - Can handle classified materials
- Disadvantages
  - Can only transfer Military/Naval Messages
  - Must have access to a Communications Center

Non-Secure Point-to-Point Data Exchange

- Advantages
  - Will know when messages have arrived at the destination site
  - Can handle many file formats
  - Does not need a supporting communications center
  - Can transfer data relatively fast
- Disadvantages
  - Does not handle Classified Data
  - May have to conduct numerous point-to-point transfers to get message sent to all addressees
  - Need to connect to another PORTSCOM unit
  - Must have access a telephone line.

Secure Point-to-Point Data Exchange

- Advantages
  - Will know when messages have arrived at the destination site
  - Can handle many file formats
  - Does not need a supporting communications center
  - Handles Classified data
- Disadvantages
  - Data transfer is very slow
  - May have to conduct numerous point-to-point transfers to get message sent to all addressees
  - Need to connect to another PORTSCOM unit
  - Must have access a telephone line.

Attach Files to CC:Mail Message and Transfer Through MSC Comms

- Advantages
  - One transmission to many users
  - Can transmit message to users on the Internet
  - Relatively fast communications
- Disadvantages
  - Can only handle Unclassified data
  - Must be able to access MSC Mail System

For Messages, What Data Format Should Be Used For Information Exchange Between Units?

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Message Text Format!!

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Message Text Format!!

- Format is constructed to provide all needed data elements
- Format can be read and processed by humans and computers
- No telling where your message will end up going after you transmit it.
- You may have to shift from Unclassified to Classified Operations, which may require a Comms Center

Point to Point Data Transfer

- The Process
  - Generate the messages you want to transfer.
  - Group all messages going to the same place.
  - Create a CONTROL.ZIP or HOST.ZIP file and put this file in the C:\OUTGOING directory.
  - Clean out your C:\INCOMING directory.
  - Conduct a Secure/Non-Secure Control or Host Transfer the destination site.
  - Locate the CONTROL.ZIP or HOST.ZIP file in the C:\INCOMING directory.
  - Unzip this file to obtain your incoming messages.

Point to Point Data Transfer

CONTROL

Delfile1.txt
Delfile2.txt
Delfile3.txt

HOST

Washfile4.t
Washfile5.t
Washfile6.t

Point to Point Data Transfer

CONTROL

Delfile1.txt   C:\Outgoing
Delfile2.txt   Control.zip
Delfile3.txt

WinZip

HOST

C:\Outgoing   Washfile4.t
Host.zip   Washfile5.t
Washfile6.t

WinZip

Point to Point Data Transfer

CONTROL   ## HOST

Delfile1.txt   **C:\Outgoing**   **C:\Outgoing**   **Washfile4.t**
Delfile2.txt   **Control.zip**   **Host.zip**   **Washfile5.t**
Delfile3.txt   **Washfile6.t**

WinZip   **WinZip**

C:\Incoming   **C:\Incoming**

Point to Point Data Transfer

CONTROL

Delfile1.txt   C:\Outgoing
Delfile2.txt   Control.zip
Delfile3.txt

WinZip

C:\Incoming

HOST

C:\Outgoing   Washfile4.t
   Host.zip   Washfile5.t
                  Washfile6.t

WinZip

C:\Incoming
   Control.zip

Point to Point Data Transfer

CONTROL   **HOST**

Delfile1.txt   C:\Outgoing   **C:\Outgoing   Washfile4.t**
Delfile2.txt   Control.zip   **Host.zip   Washfile5.t**
Delfile3.txt   **Washfile6.t**

WinZip   **WinZip**

C:\Incoming   **C:\Incoming**
Host.zip   **Control.zip**

Point to Point Data Transfer

CONTROL

Delfile1.txt   **C:\Outgoing**
Delfile2.txt   **Control.zip**
Delfile3.txt

WinZip

Washfile4.txt C:\Incoming
Washfile5.txt   **Host.zip**
Washfile6.txt

WinZip

HOST

C:\Outgoing   **Washfile4.t**
Host.zip   **Washfile5.t**
Washfile6.t

WinZip

C:\Incoming   **Delfile1.txt**
Control.zip   **Delfile2.txt**
Delfile3.txt

WinZip

Manual or Operator-Assisted Calls

- Potential Situations
  - You have to physically talk to an Operator to place the call.
  - The PORTSCOM organization is within a large office organization, so you have to dial an extension number to "ring" the PORTSCOM organization.

Manual or Operator-Assisted Calls

PORTSCOM Unit (Control Mode)

PORTSCOM Unit (Host Mode)
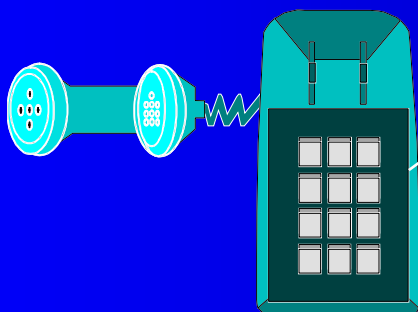
Manually Dial The Telephone Number

Manual or Operator-Assisted Calls

**PORTSCOM
Unit
(Control Mode)**

**Speak with Operator or
Continue with Manual Dial**
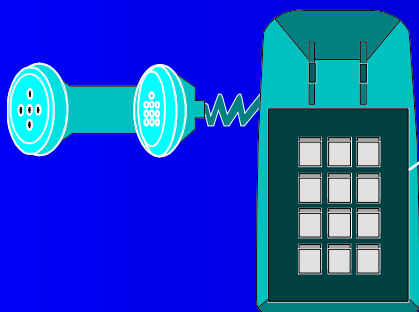
**PORTSCOM
Unit
(Host Mode)**

Manual or Operator-Assisted Calls
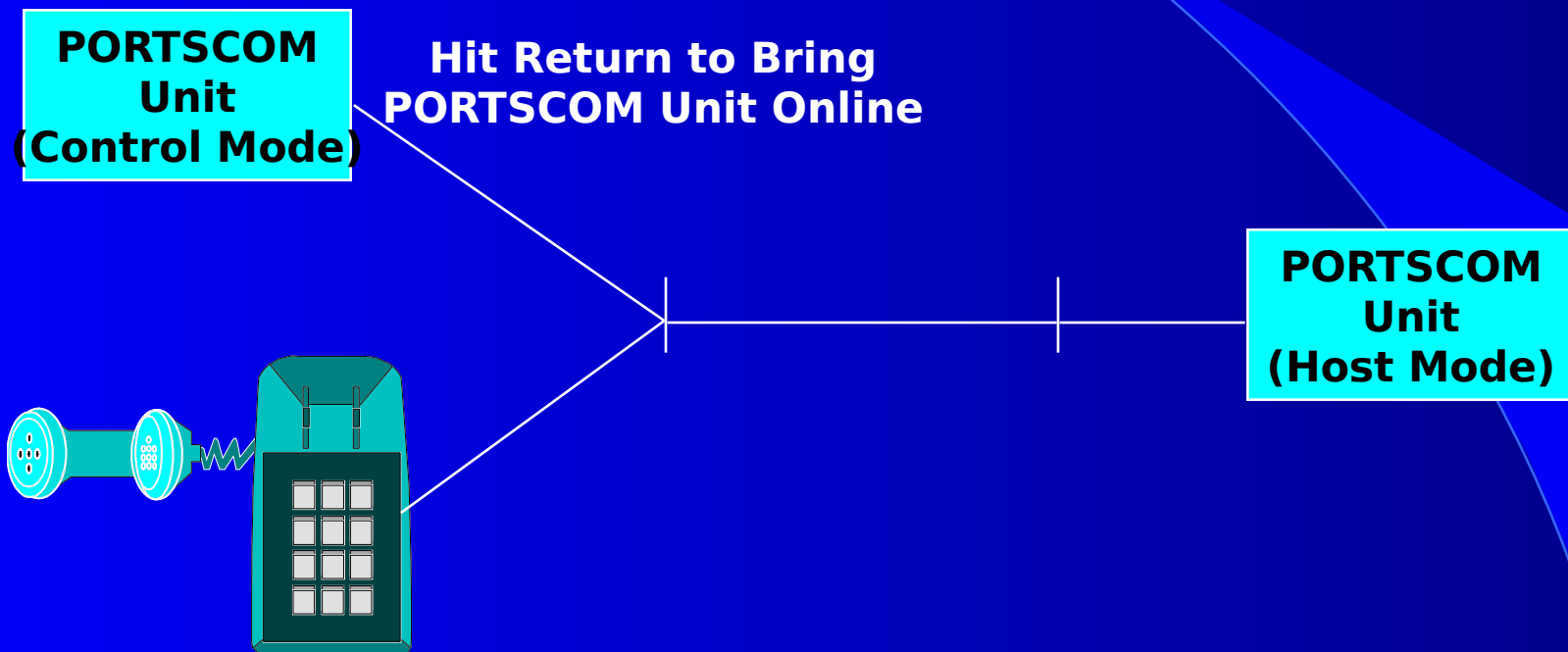
PORTSCOM Unit (Control Mode)

The Destination PORTSCOM Unit Is Starting To Ring

PORTSCOM Unit (Host Mode)
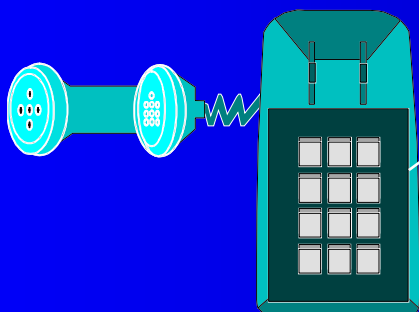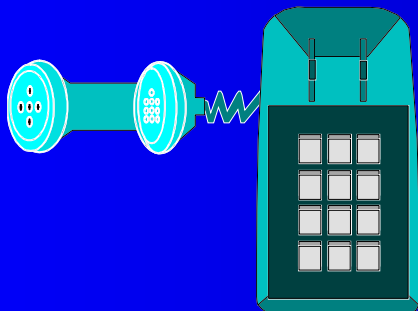
Manual or Operator-Assisted Calls

PORTSCOM Unit (Control Mode)

Hit Return to Bring PORTSCOM Unit Online

PORTSCOM Unit (Host Mode)

Manual or Operator-Assisted Calls

PORTSCOM Unit (Control Mode)

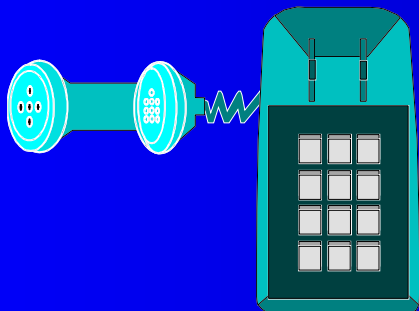**PORTSCOM Unit (Host Mode)**

Hang-Up the Telephone

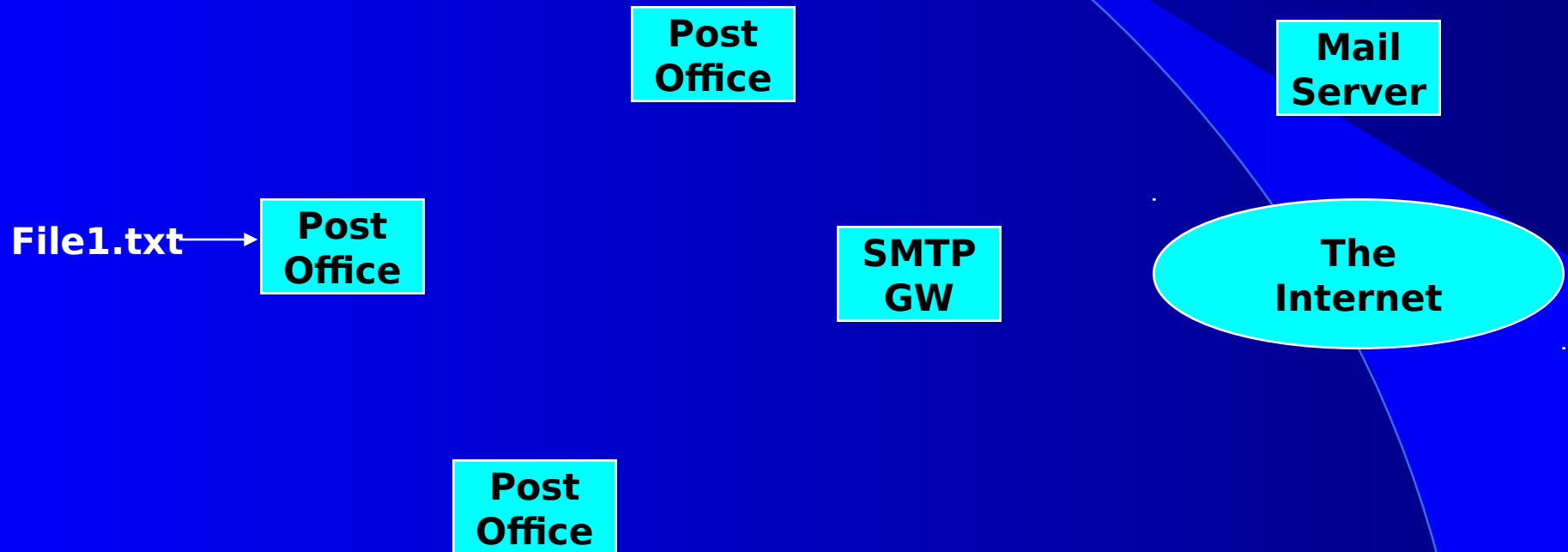# Manual or Operator-Assisted Calls

PORTSCOM Unit (Control Mode)

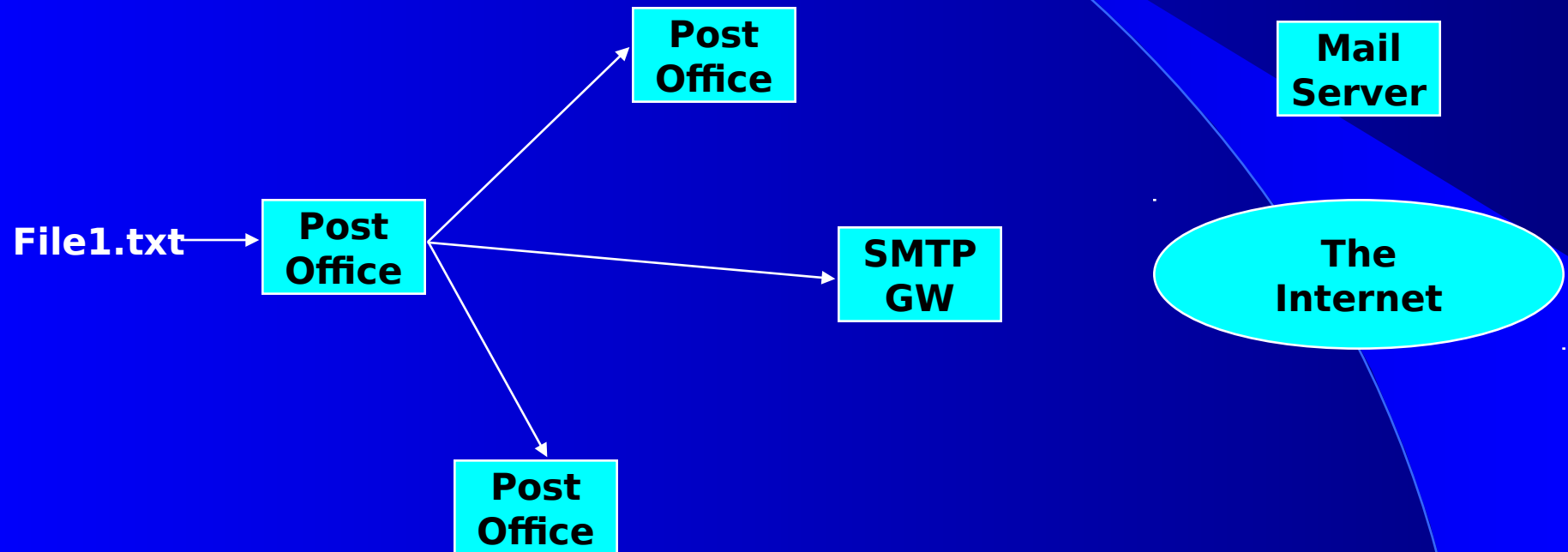**Destinaton PORTSCOM Unit Answers the Phone**
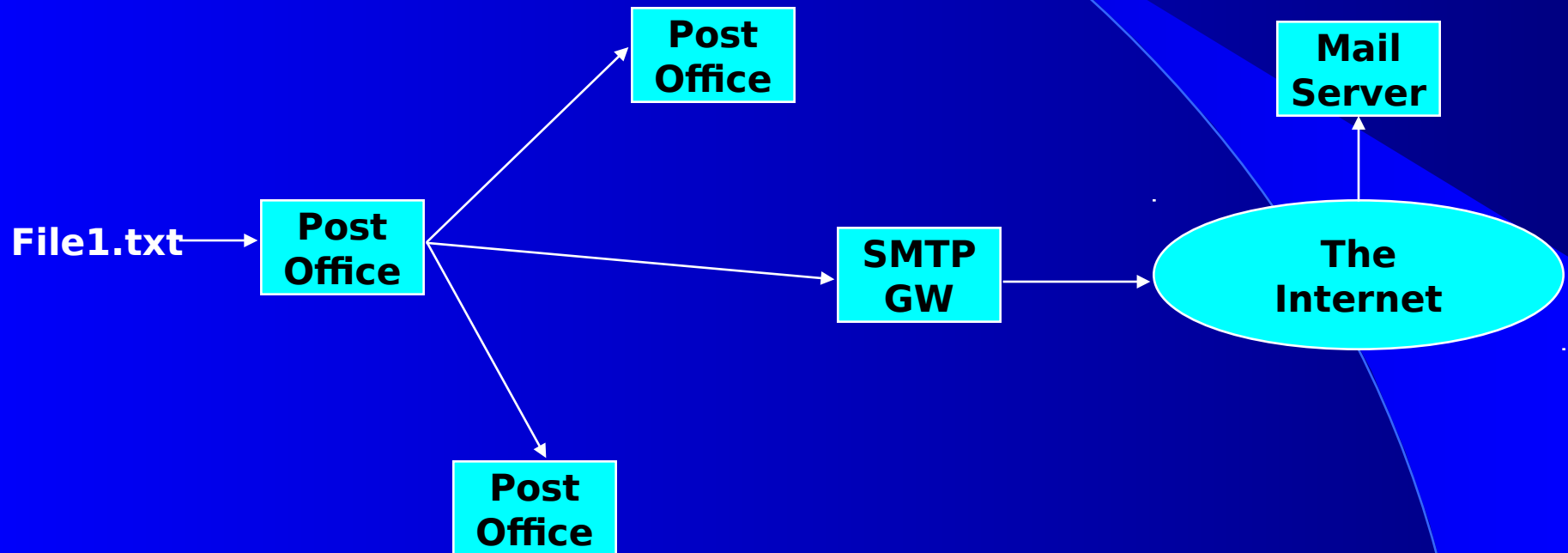
PORTSCOM Unit (Host Mode)

CC:Mail Data Transfer

Post Office

Mail Server

File1.txt → Post Office

SMTP GW

The Internet

Post Office

CC:Mail Data Transfer

File1.txt → **Post Office**

Post Office

SMTP GW

Post Office

Mail Server

The Internet

CC:Mail Data Transfer

File1.txt → **Post Office**

Post Office

Post Office

SMTP GW

The Internet

Mail Server

CC:Mail Data Transfer

File1.txt → **Post Office**

Post Office

SMTP GW

Mail Server

The Internet

Post Office

File1.txt

CC:Mail Data Transfer

File1.txt

File1.txt → **Post Office**

Post Office

SMTP GW

The Internet

Mail Server

File1.txt

Post Office

File1.txt

CC:Mail Data Transfer

File1.txt

File1.txt

Post Office

Mail Server

File1.txt

Post Office

SMTP GW

The Internet

Post Office

File1.txt
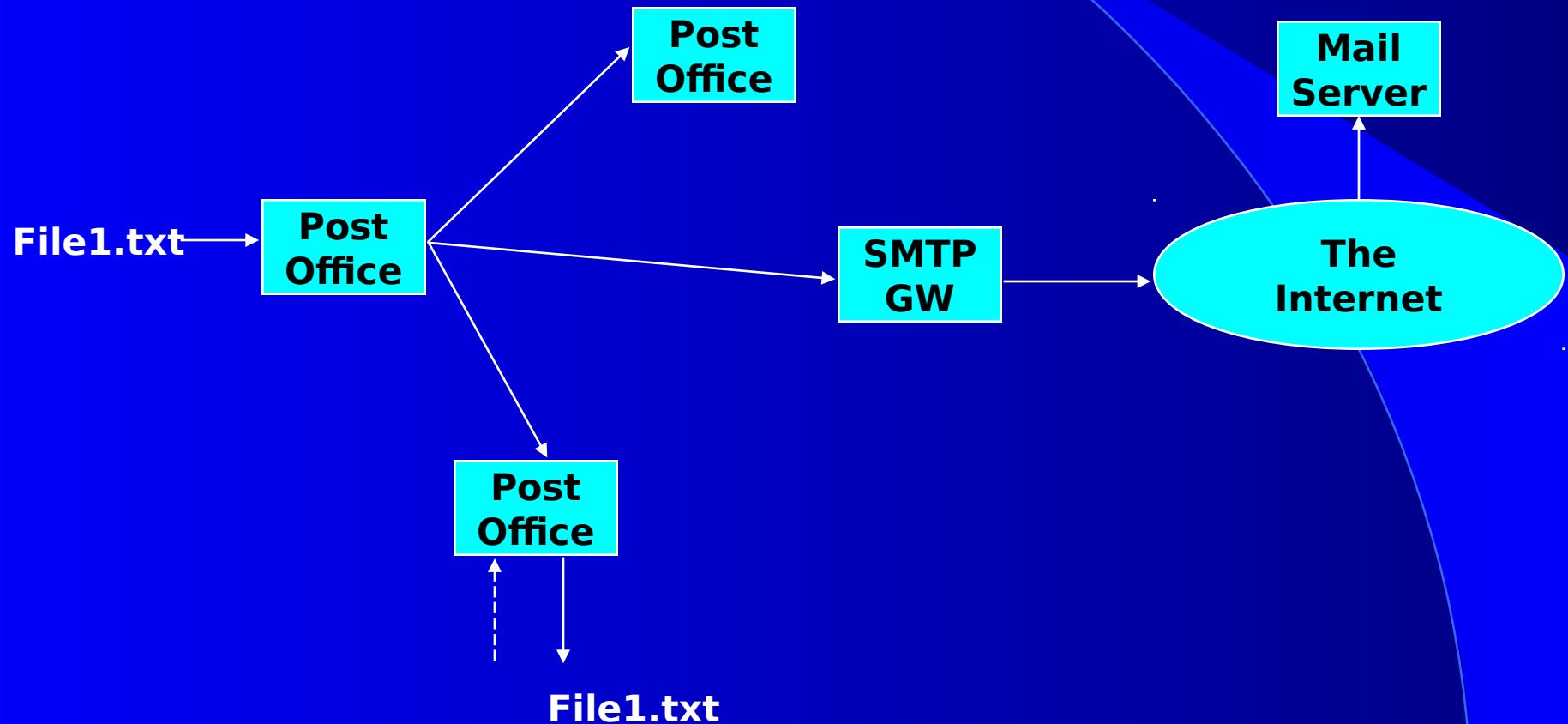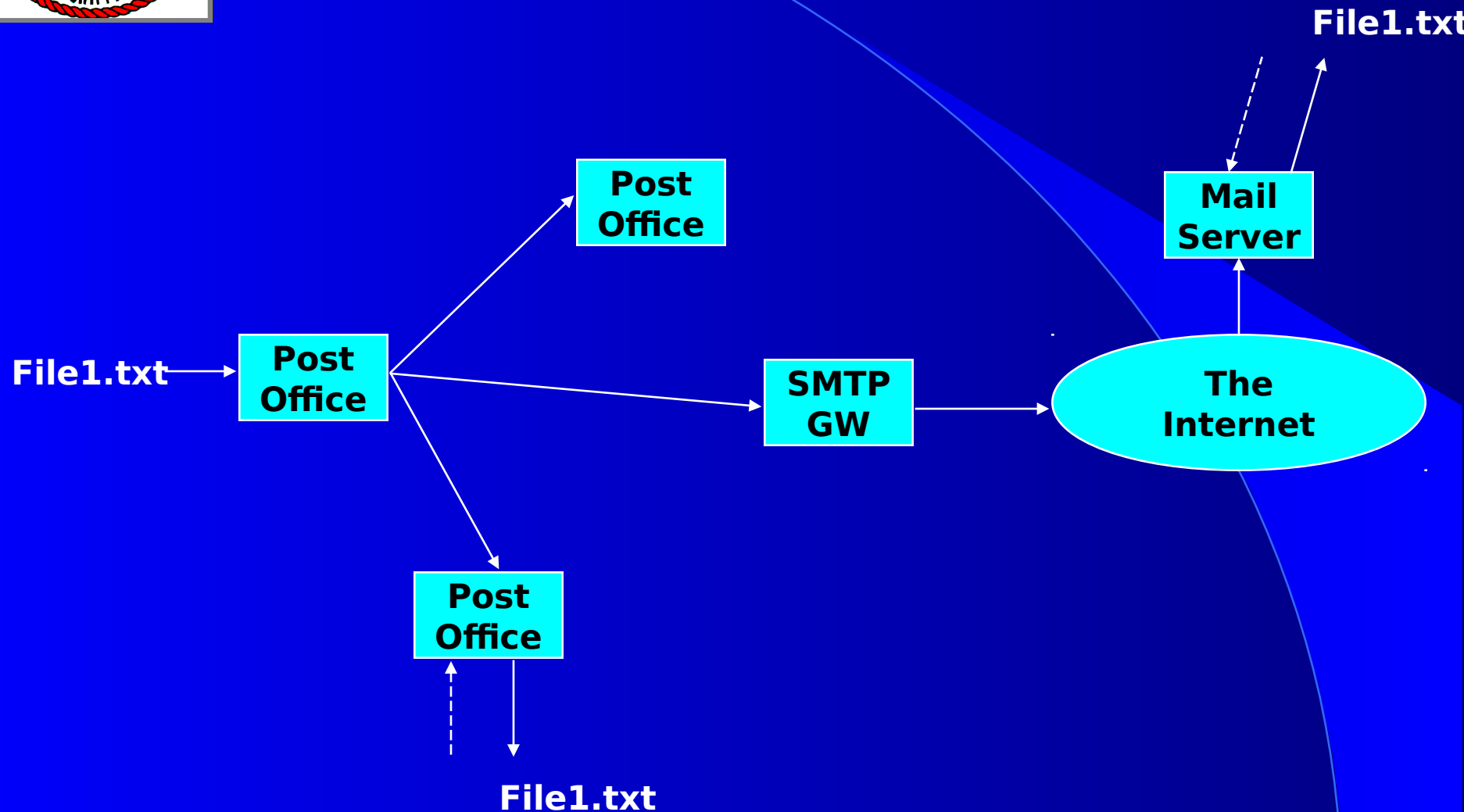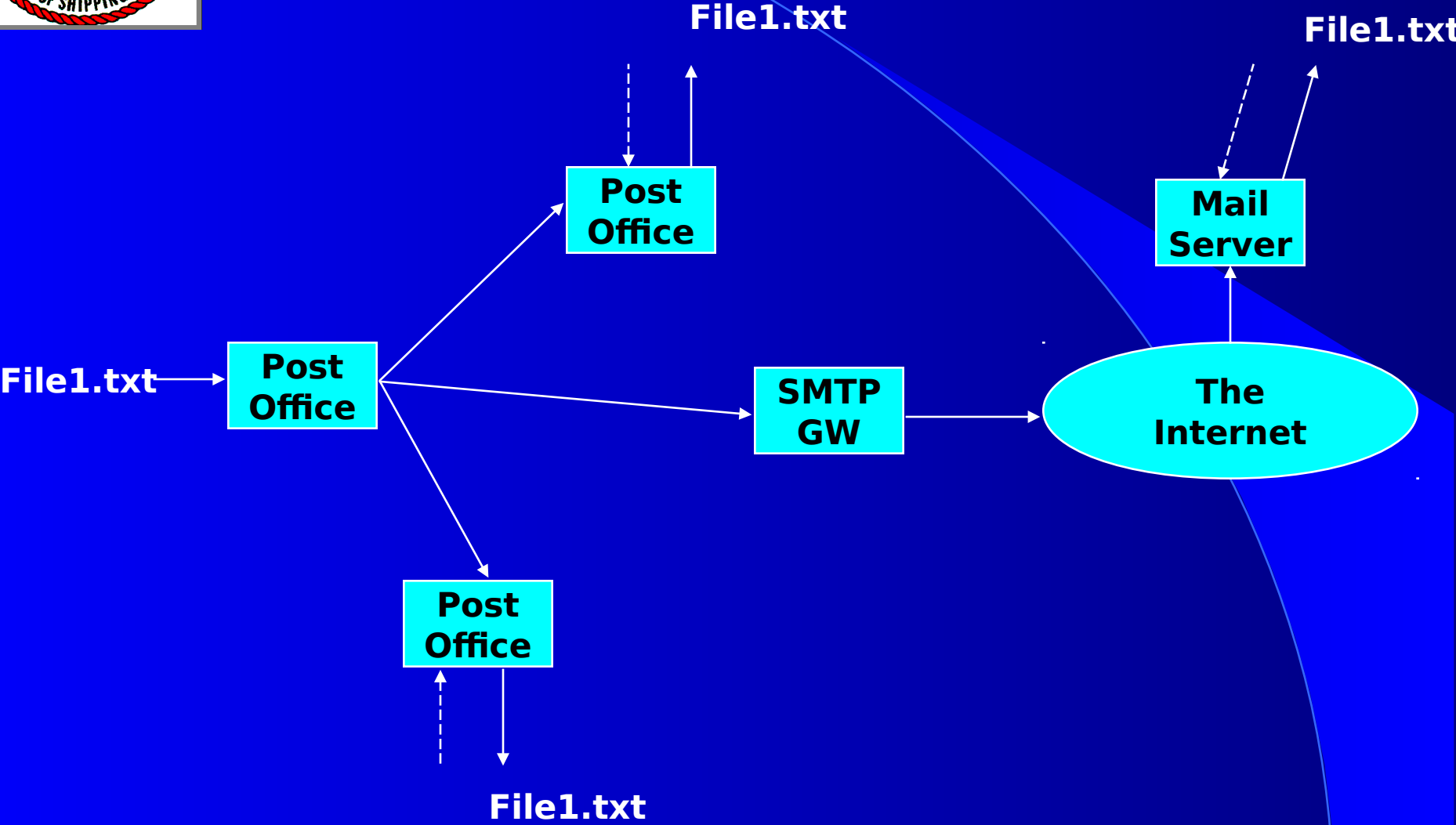
Lets Put Some Hands On the Keyboards